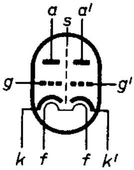
PHILIPS ECC 85

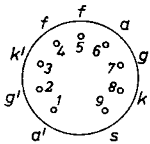
DOUBLE TRIODE for use as R.F. amplifier and selfoscillating mixer
DOUBLE TRIODE pour utilisation en amplificatrice H.F. et tube mélangeur auto-oscillateur
DOPPELTRIODE zur Verwendung als HF-Verstärker und selbstschwingende Mischröhre

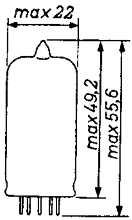
Heating: indirect by A.C. or D.C.; parallel supply
Chauffage: indirect par C.A. ou C.C.; alimentation — parallèle
Heizung: indirekt durch Wechsel- oder Gleichstrom; Parallelspeisung

V_f = 6,3 V
I_f = 435 mA

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Base, culot, Sockel: Noval

Capacitances
Capacités
Kapazitäten

C_{ag}	=	1,5 pF	$C_{a'g'}$	=	1,5 pF
C_{ak}	=	0,18 pF	$C_{a'k'}$	=	0,18 pF
$C_{a(k+f+s)}$	=	1,2 pF	$C_{a'(k'+f+s)}$	=	1,2 pF
$C_{g(k+f+s)}$	=	3,0 pF	$C_{g'(k'+f+s)}$	=	3,0 pF
$C_{a(k+f+s)}$	=	1,9 pF [1]	$C_{a'(k'+f+s)}$	=	1,9 pF [1]
$C_{aa'}$	<	0,04 pF	$C_{ak'}$	<	0,008 pF
$C_{gg'}$	<	0,003 pF	$C_{gk'}$	<	0,003 pF
$C_{ag'}$	<	0,008 pF	$C_{a'k}$	<	0,008 pF
$C_{a'g}$	<	0,008 pF	$C_{g'k}$	<	0,003 pF
			$C_{aa'}$	<	0,008 pF [1]

[1]) With external shield (22.5 mm diameter)
Avec blindage extérieur (diamètre de 22,5 mm)
Mit äusserer Abschirmung (22,5 mm Durchmesser)

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Typical characteristics
Caractéristiques types
Kenndaten

V_a	=	250 V
V_g	=	-2,3 V
I_a	=	10 mA
S	=	5,9 mA/V
μ	=	57

Operating characteristics as R.F. amplifier in F.M./A.M. receivers
Caractéristiques d'utilisation comme amplificatrice H.F. dans des récepteurs F.M./A.M.
Betriebsdaten als HF-Vertärker in FM/AM-Empfängern

V_b	=	250 V
R_a	=	1,8 kΩ
V_a	=	230 V
R_k	=	200 Ω
V_g	=	-2 V
I_a	=	10 mA
S	=	6,0 mA/V
R_i	=	9,7 kΩ
r_g(f= 100 Mc/s)	=	6 kΩ
R_{eq}	=	0,5 kΩ

Operating characteristics as self-oscillating mixer in F.M./A.M. receivers
Caractéristiques d'utilisation comme tube mélangeur auto-oscillateur dans des récepteurs F.M./A.M.
Betriebsdaten als selbstschwingende Mischröhre in FM/AM-Empfängern

V_b	=	250 V
R_a	=	12 kΩ
R_g	=	1 MΩ
V_{osc}	=	3,0 Veff
I_a	=	5,2 mA
Sc	=	2,3 mA/V
R_i	=	22 kΩ
r_g (f= 100Mc/s)	=	15 kΩ

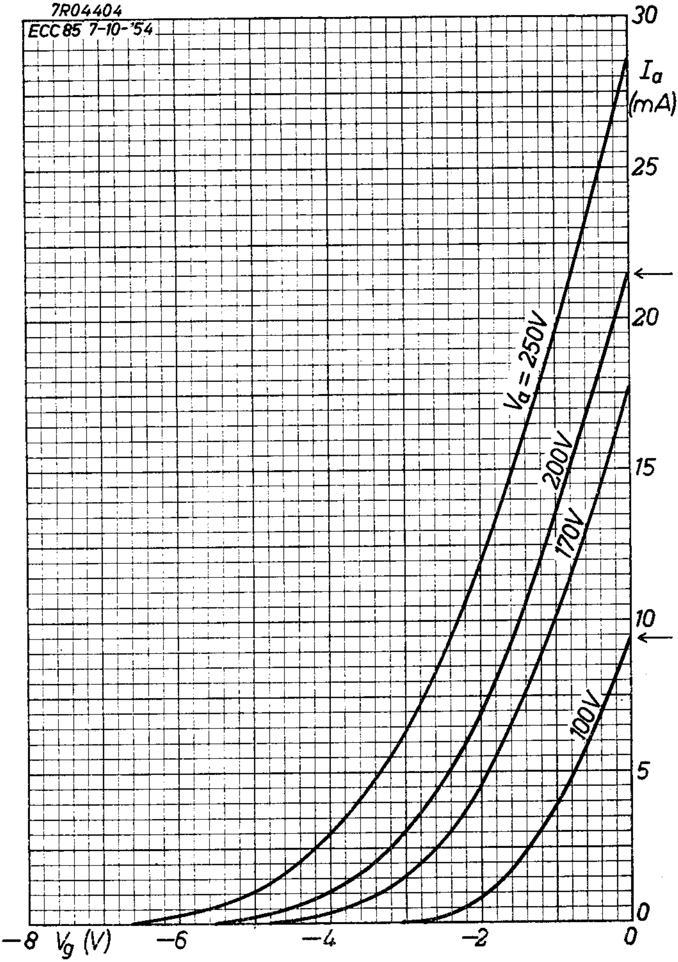
Limiting values (each system)
Caractéristiques limites (par système)
Grenzdaten (pro System)

V_{ao}	= max.	550 V	
V_a	= max.	300 V	
W_a	= max.	2,5 W	1)
I_k	= max.	15 mA	
$-V_g$	= max.	100 V	
R_g	= max.	1 MΩ	
R_{kf}	= max.	20 kΩ	2)
V_{kf}	= max.	90 V	

1) $W_a + W_{a'} = 4,5$ W

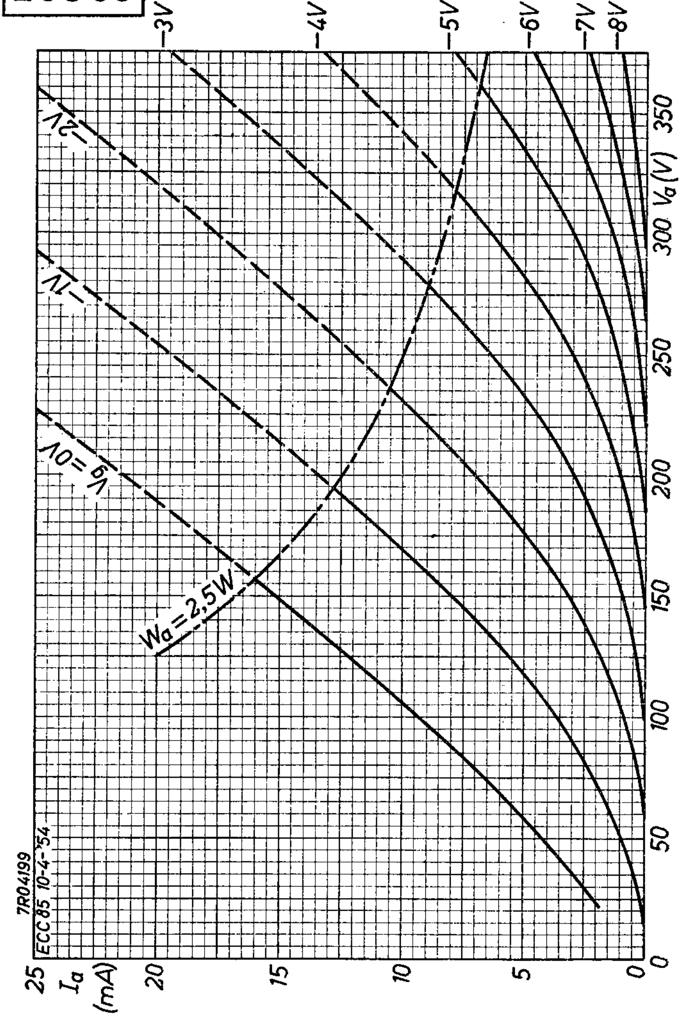
2) Not valid for cascode connection
Ne pas valable pour le montage cascode
Nicht gültig für Kaskodenschaltung

939 4526
11.11.1954


7R04404
ECC 85 7-10-'54
30
I_a (mA)
25
20
15
10
5
0
V_a = 250V
200V
170V
100V
−8
V_g (V)
−6
−4
−2
0

ECC 85

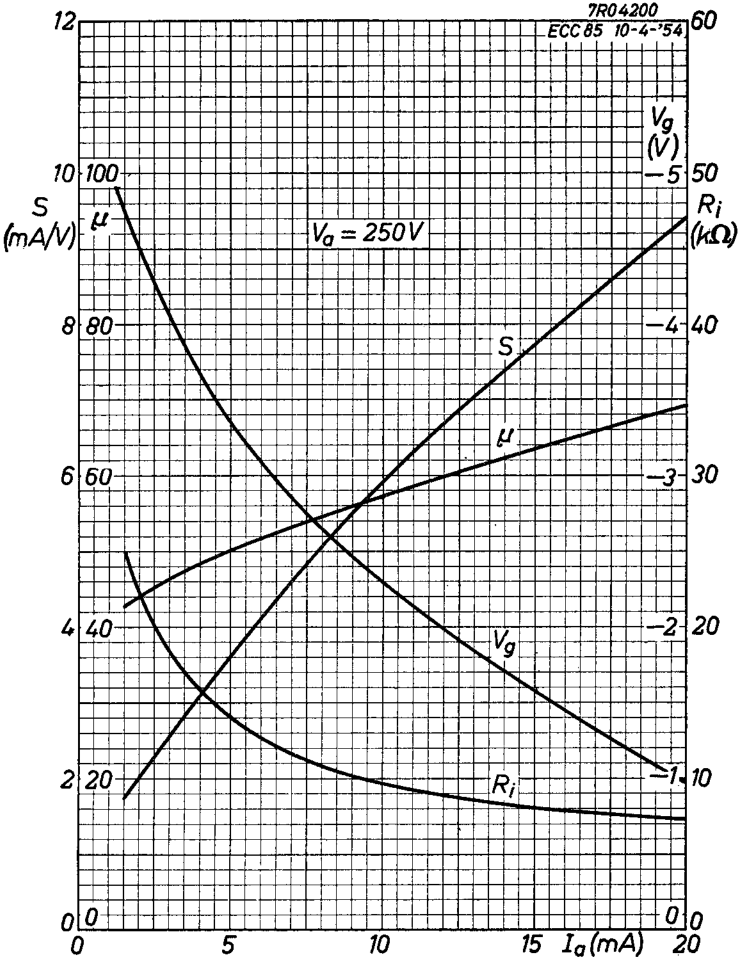
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B

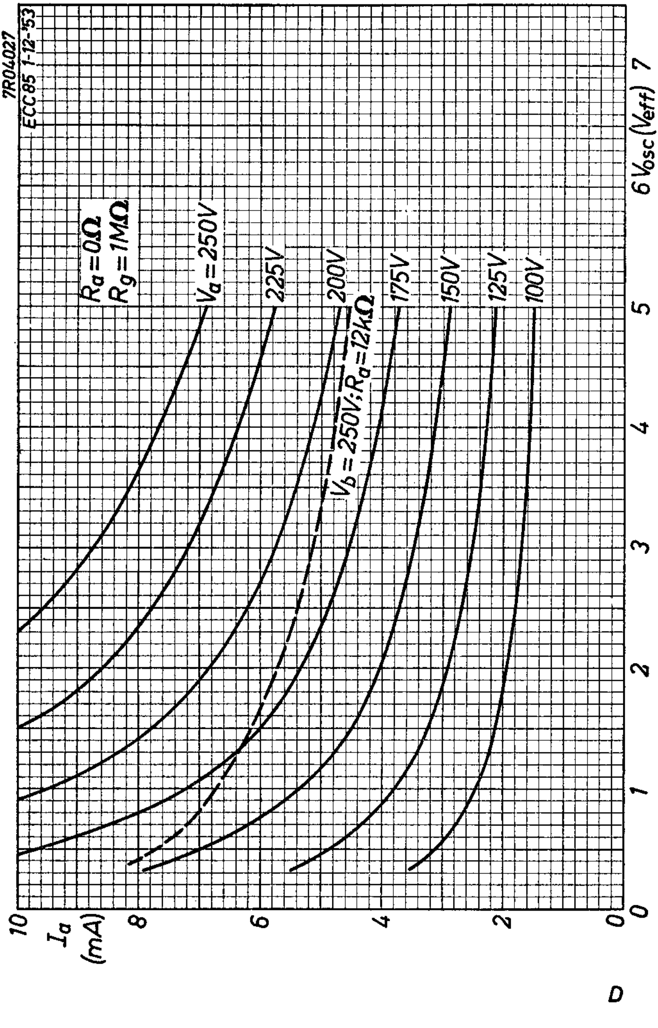
PHILIPS

ECC 85

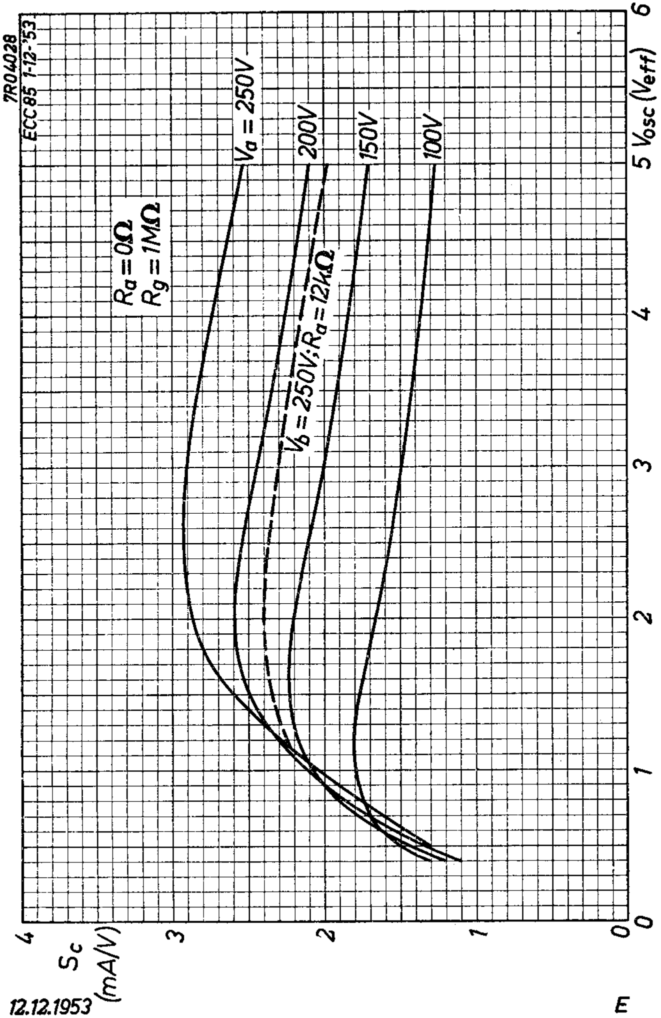


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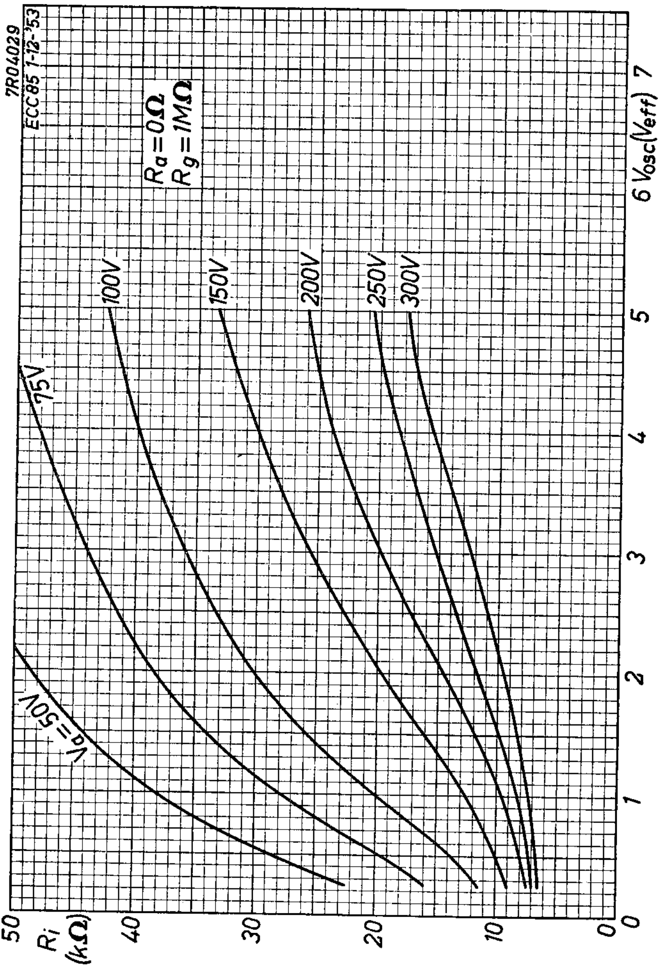


D

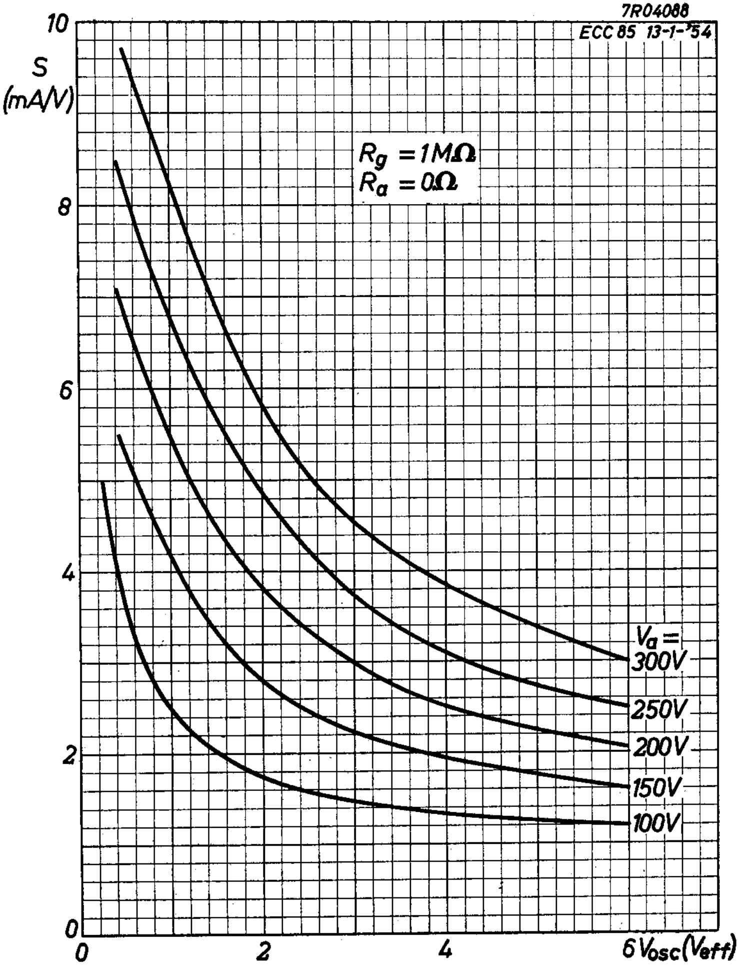

7R04028
ECC 85 1-12-'53
Va = 250V
200V
150V
100V
Ra = 0Ω
Rg = 1MΩ
Vb = 250V; Ra = 12kΩ
Sc (mA/V)
4
3
2
1
0
0
1
2
3
4
5
6
Vosc (Veff)
12.12.1953
E

ECC 85

PHILIPS



F


7R04088
ECC 85 13-1-'54
S (mA/V)
10
8
6
4
2
0
R_g = 1MΩ
R_a = 0Ω
V_a =
300V
250V
200V
150V
100V
0
2
4
6 V_{osc}(V_{eff})

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Electronic Tube HANDBOOK

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7	D	1954.04.04
8	E	1953.12.12
9	F	1953.12.12
10	G	1954.01.01
11	FP	1999.06.25